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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-27-124** **Date: 08-07-17**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	24.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-27-124** **Date: 08-07-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13

Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.

Customer's Reference : EE/DD/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-17

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-07-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-12-27-124 **Date: 08-07-17**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.43	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 10-07-17

Lab ID	:	CP-2018-12-27-124
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-17
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	06-07-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	202	12262	21.960	1790.9	1784.9	Not less than 1800Kg/m^3
2	401	152	201	12251	21.780	1777.8		
3	403	150	202	12211	21.810	1786.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.610	24.380	5.05	5.21	Shall not be more than 10% by mass
2	25.780	24.490	5.27		
3	25.590	24.300	5.31		

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Lab ID : **CP-2018-12-27-124** **Date: 10-07-17**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	152	201	
3	402	150	203	
4	401	156	201	
5	403	152	203	
6	401	153	200	
7	402	151	201	
8	403	152	203	
9	401	159	201	
10	402	150	203	
11	401	150	200	
12	402	152	199	
13	401	155	203	
14	403	150	201	
15	401	153	202	
16	402	151	201	
17	401	152	203	
18	402	150	201	
19	401	150	200	
20	400	151	201	
Average of 20	**402**	**152**	**201**	

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Lab ID : **CP-2018-12-27-124**

Date: 10-07-17

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	151	60853	252.9	4.2	4.5
2	401	152	60952	283.7	4.7	
3	402	150	60300	276.4	4.6	
4	401	156	62556	283.6	4.5	
5	403	152	61256	276.7	4.5	
6	401	153	61353	261.5	4.3	
7	402	151	60702	279.7	4.6	
8	403	152	61256	287.1	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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